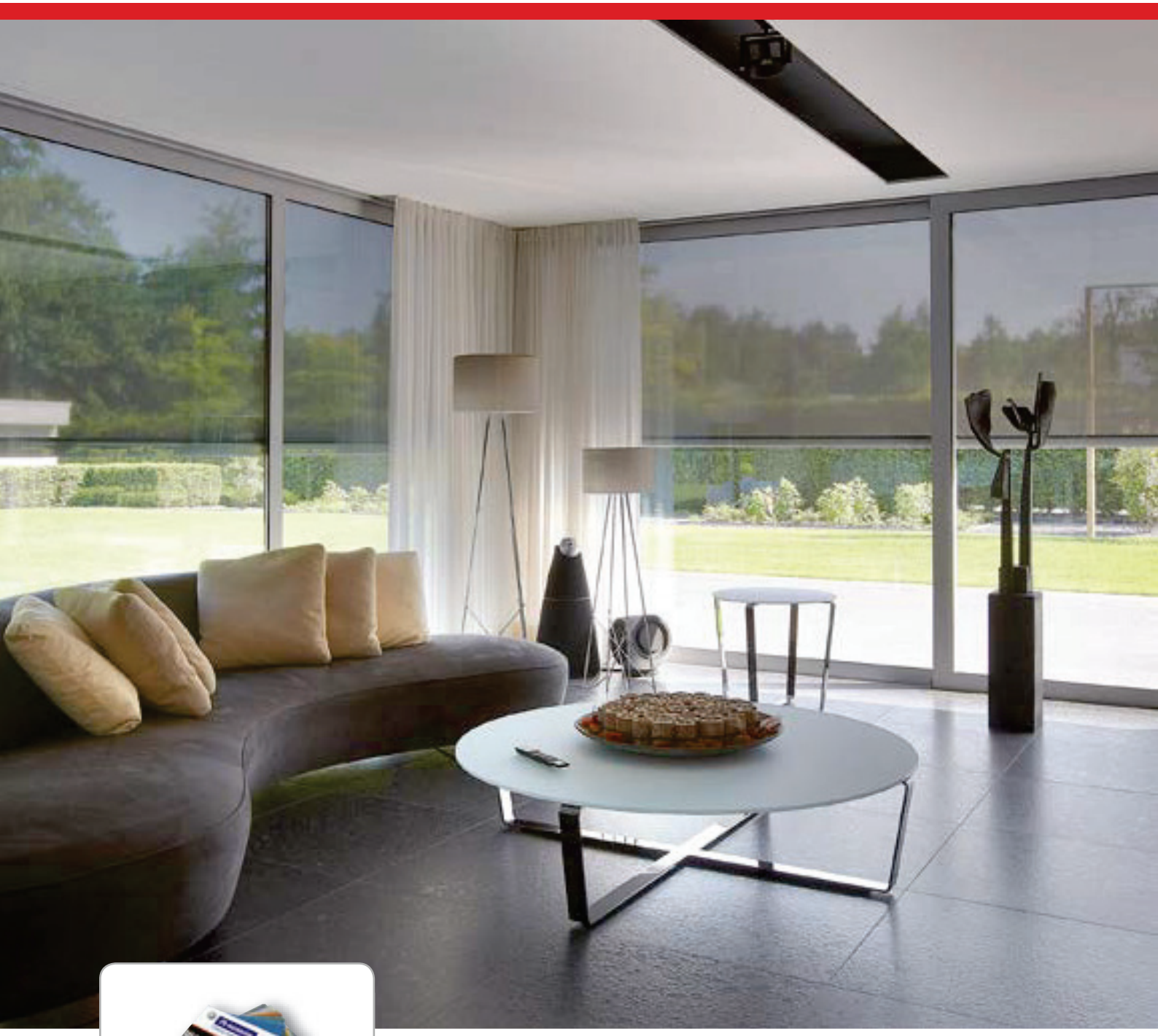
Solskjerming AS

RENSON®

Creating healthy spaces



Screen fabric typology

General

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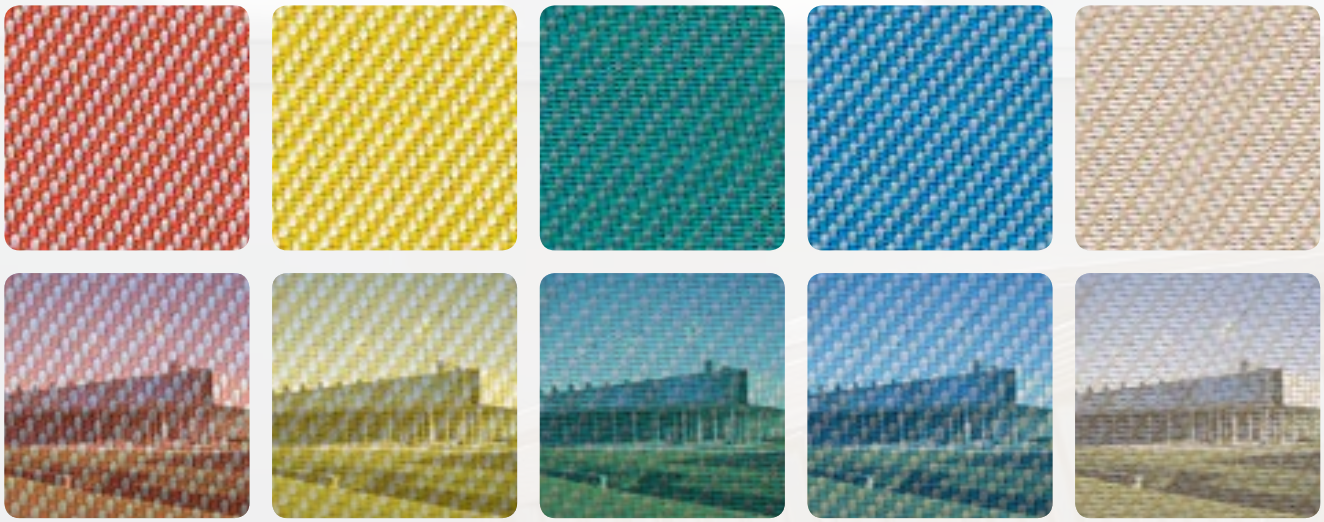
Sun blind fabrics are technical fabrics which prevent excessive heat and blinding sunlight. An external sun screen reduces the effects of overheating. The warm sun rays are stopped before they reach the glass.

A sun screen is not only functional, but also has a decorative role.
Its colour is decisive for the amount of heat that is conveyed, the light that is filtered out and the protection against UV rays. The colour of the light creates a pleasant atmosphere.

Sun blind fabrics are made of heavy-duty, durable materials.
They are dirt and water repellent, rot and mould free, UV resistant, weatherproof and allow air to pass through.



Example of how fabric colour influences your environment

A suitable sun blind fabric will:
1. Protect against the sun and the detrimental effect of UV radiation (fading of furniture)
2. Protect against heat and sunlight during the day and against cold at night
3. Save energy
4. Prevent light reflection on computers and/or television screens
5. Black out a room entirely or partly
6. Decorative role

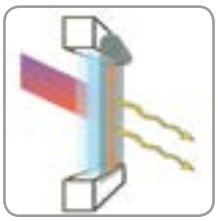
Technical characteristics of sun blind fabrics

OF: % openness

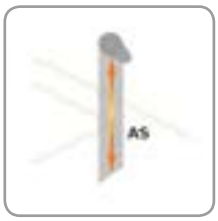
TS: sun transmittance in %

TV: visible light transmission in % (before LTA)

RS: sun reflection in %



G/ tot: shading coefficient (SC or g)



AS: sun absorption in %

TS + RS + AS = 100% of the incident energy

External sun screens reduce the g-value to 0.08, which means that 92% of the solar energy is blocked out, leaving only 8% to enter. Measurements also show that as sun blinds block out heat more efficiently, they also block out more light. A logical, but important conclusion.

Shading coefficient or g-value (SC)
SC, now g-value, is the total percentage of energy entering through a window, possibly equipped with sun blinds. It is a measure of the efficiency of sun blinds.

g-value of sun blind = fraction of solar energy which goes through the sun blind + the glazing
= g (g+C, perpendicular)
g-value of glazing = fraction of solar energy which goes through the glazing
= g (g, perpendicular)

Shading factor F
= fraction of solar energy which goes through sun blind alone.

$$F = \frac{\text{g-value sun blind}}{\text{g-value glazing}} = \frac{\text{g (g + c, perpendicular)}}{\text{g (g, perpendicular)}} = \frac{\text{g / tot}}{\text{g (g, perpendicular)}}$$

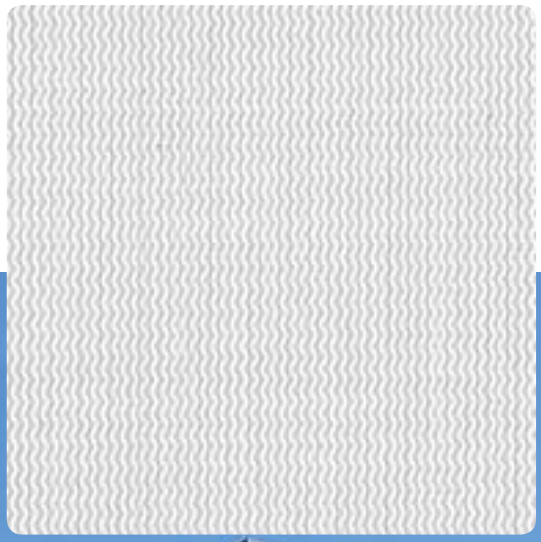
The g-value and shading factor F of a sun blind thus depend on the type of glazing.

Sun transmission factor $\tau_{e,dir,h}$ of sun blinds not parallel to the surface of the window
= fraction of solar energy which enters through the sun blind at vertical incidence of light.

The total G-factor (G_{total}) is the combination of window and sun protection and needs to be lower or equal to 0,3 , according to European standards.

U-value or heat transmittance coefficient of glazing (not of sun blinds!)
= amount of heat which enters through the glazing between the external and internal environment, per unit surface and temperature difference, expressed in W/m²/K.

Acrylic fabric



Woven polyacrylic fabric or acrylic fabric

These fabrics are woven with polyacrylic yarn (polyacrylonitrile), coloured in bulk. The fibres are highly resistant to UV radiation. After weaving they undergo a chemical treatment, which makes them extra water repellent and better protected against dirt. The fabric pieces have a maximum width of about 120 cm and they are stitched together and seamed all round. The widths of the seams and overlaps may vary depending on the manufacturer and the specific application. These fabrics are ideal for all external sun blinds with the exception of vertical applications (not translucent).

Collections:
DICKSON

Screen fabric made of woven coated glass fibre yarn, or glass fibre fabric for short

These fabrics are woven from coated glass fibre yarn. This yarn with a glass fibre core is individually coated with a plastisol layer. This manufacturing process produces flexible fabrics. The screen fabric is heavy and it is extremely suitable for use in vertical rolling blind applications.

Glass fibre fabric & Fixscreen® 100 EVO

Glass fibre fabric & Fixvent® Mono AK EVO

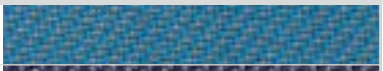
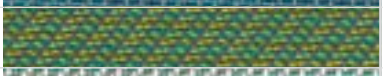
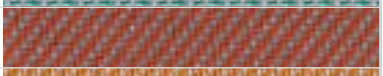
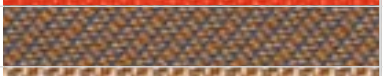
Glass fibre fabric & Fixscreen® 100 EVO

Technical features of glass fibre fabric

	Screen Sergé® (see our fabric swatch or overview from p.6)
Description	Sun blind fabric for external sun blinds
Composition	Glass fibre yarn (42 %) with PVC coating (58 %)
Available width	From 1350 to 2700 mm, depending on colour
Fire resistance	M1
Thickness	Approx 0,55 mm
Weight	Approx 535 g/m²
Tearing strength warp according to NF GO7.146 (ISO 4674-1.2)	8,5 daN
Tearing strength weft (ISO 4674-1.2)	7,5 daN
Breaking strength warp (ISO 1421)	> 260 daN/ 5 cm
Breaking strength weft according to NF G7- 001 (ISO 1421)	225 daN/5 cm

*: Max. width of 3200 mm for a selection of 7 fabrics (see list on page 7)

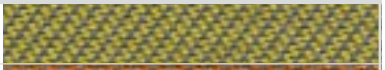
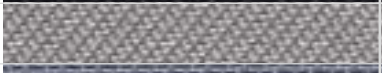
Glass fibre fabric

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	OF = 5 %
SC0103	63,8	28,9	7,3	6,3	0,10	
SC0140	76,0	18,4	5,6	4,7	0,10	
SC2040	65,9	28,1	6,0	5,2	0,10	
SC0703	50,6	39,1	10,3	7,1	0,11	
SC0740	61,5	31,0	7,5	4,4	0,10	
SC4040	61,7	26,2	12,1	4,9	0,13	
SCM01	77,1	18,4	4,5	4,2	0,10	
SCM02	35,2	51,4	13,4	10,2	0,12	
SC0150	70,1	23,5	6,5	6,0	0,10	
SC2050	70,6	21,1	8,3	7,8	0,12	
SC0750	55,4	36,4	8,2	6,3	0,10	
SCM16	74,3	21,0	4,6	3,7	0,10	
SCM17	67,8	29,2	3,0	2,7	0,08	
SCM18	37,5	48,7	13,8	11,3	0,12	
SCM19	30,8	57,2	12,0	8,7	0,11	
SCM30	50,8	42,7	6,5	5,1	0,09	
SC0109	65,6	27,7	6,8	5,7	0,10	
SC0708	49,3	40,8	9,9	7,8	0,11	
SC0709	49,8	39,6	10,6	7,3	0,11	
SC0909	37,7	45,0	17,3	8,3	0,15	
SCM47	66,2	26,7	7,1	6,5	0,11	
SCM48	50,0	38,8	11,2	9,1	0,12	
SCM56	54,3	35,7	10,0	7,1	0,11	
SC0816	63,4	26,1	10,5	8,4	0,13	

All information subject to error and technical changes. Printed colours may deviate slightly, please refer to our fabric swatch for exact colours.
* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Glass fibre fabric

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	OF = 5 %
SC0105	64,6	29,0	6,4	6,2	0,10	
SC0108	65,5	29,5	4,9	4,3	0,09	
SC0205	24,1	61,6	14,3	12,9	0,12	
SC0505	28,8	49,7	21,5	20,2	0,17	
SC0808	35,4	48,6	16,0	9,4	0,14	
SCM64	44,6	47,6	7,8	5,5	0,09	
SCM65	46,3	43,2	10,6	7,0	0,11	
SCM73	45,9	46,7	7,4	6,1	0,09	
SC0102**	56,2	37,2	6,7	6,6	0,09	
SC0110**	68,8	26,5	4,7	4,5	0,09	
SC0202**	13,2	65,9	21,0	21,2	0,15	
SC0207	37,4	50,9	11,7	9,9	0,11	
SC0707**	51,7	38,3	10,1	8,4	0,11	
SC1002	39,1	49,2	11,7	10,2	0,11	
SC1010	54,1	36,5	9,4	7,7	0,11	
SC2002	26,4	58,2	15,5	13,7	0,13	
SC2020	32,5	52,5	14,9	12,9	0,13	
SC0101**	81,3	15,1	3,5	3,6	0,10	
SC0130**	86,5	9,9	3,6	3,6	0,10	
SC0606	88,0	8,1	3,9	3,8	0,10	
SC1006	73,2	21,1	5,7	5,0	0,10	
SC3030**	91,4	5,0	3,6	3,6	0,10	
SCM31	63,0	33,2	3,9	3,6	0,08	
SCM33	73,4	23,0	3,6	3,0	0,09	
SCM36	27,7	59,8	12,4	11,6	0,11	
SCM45	48,7	42,6	8,7	7,8	0,10	

All information subject to error and technical changes. Printed colours may deviate slightly, please refer to our fabric swatch for exact colours.
* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.
** Max. width of 3200 mm for a selection of 7 fabrics (standard: 2700 mm)

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Glass fibre fabric

Architects' selection

7 new colors were selected from the Architects' selection. These colors are based on the latest trends from the architectural world.

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	OF = 5 %
SC3131	75,0	17,9	7,1	7,0	0,11	
SC3231	70,4	22,5	7,1	6,6	0,11	
SC3232	63,8	27,9	8,3	7,4	0,11	
SC3301	74,7	17,0	8,3	8,0	0,12	
SC3332	67,5	24,7	7,8	7,3	0,11	
SC3333	72,4	20,5	7,1	6,8	0,11	
SC1011	87,4	6,5	6,1	6,1	0,09	

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AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Glass fibre fabric Fixscreen®

Glass fibre fabric

Glass fibre fabric Fixscreen® 150^{EVO}

Glass fibre fabric

Technical features of glass fibre blackout fabric

	Dual Collection 13137 (E027, E0E2, E002)	Satiné Collection 21154 (S001, S002, S008, S009)
Description	Sun blind fabric for internal use. Exceptionally for exterior use: Miniscreen	
Composition	Glass fibre yarn (33%) with PVC coating (67%)	Glass fibre yarn (28%) with PVC (72%)
Available width	1400 mm	2100 mm
Fire resistance	M1	M1 (NFP 92 503)
Thickness (ISO2286-3)	0,53 mm	0,75 mm
Weight (ISO2286-2)	772 g/m²	710 g/m²
Tearing strength warp	1,5 daN	6 daN
Tearing strength weft (DIN 53.363)	2 daN	6 daN
Breaking strength warp (EN ISO 1421)	120 daN/ 5 cm	225 daN/ 5 cm
Breaking strength weft (EN ISO 1421)	100 daN/ 5 cm	190 daN/ 5cm

Ref.	As	Rs	Ts	Tv	OF = 0 %
E027	95	5	0	0	
E0E2	93	7	0	0	
E002	68	32	0	0	
S001	79	21	0	0	
S002	59	41	0	0	
S008	48	52	0	0	
S009	31	69	0	0	

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* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Glass fibre fabric & Lagune® / Fixscreen®

Screen fabrics based on coated pre-stressed polyester cloth, or polyester fabric for short (Soltis® fabric)

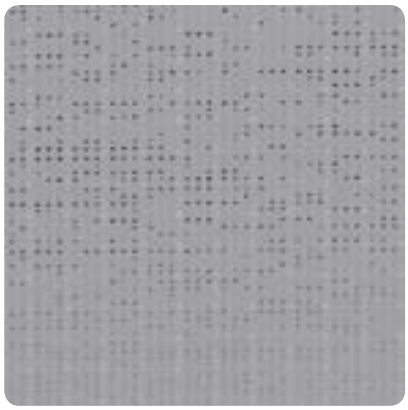
This sun blind fabric is made of high strength polyester yarn. After the weaving process the fabric is pulled in both directions with high tension and is fixed with liquid PVC. Thanks to this process the screen firmly retains its shape, showing hardly any distortion under pressure. In high tension applications, the screen meets the requirements excellently, with little sag, making it well-suited to shade large areas. The fabric is used in both horizontal and vertical applications where transparency is required.

The new collection of Soltis® is available with great change in range of colors. These colors are based on the latest trends from the architectural world.

Technical features of Soltis® polyester fabric

	Soltis® 86	Soltis® 92	Soltis® 93	Soltis® B92 blackout fabric
Description	Sun blind fabric for external sun blinds, ideal for façades, conservatories, sun lounges and glass roofs			
Composition	Polyester textile fabric manufactured using PRECONTRAINT FERRARI technology			
Available width	1770/2700 mm	1770/2670 mm	2670 mm	1700 mm
Fire resistance	M1	M1	M1	M2
Thickness (EN ISO 2286-3)	Approx 0,43 mm	Approx 0,45 mm	Approx 0,45 mm	Approx 0,60 mm
Weight (EN ISO 2286-2)	Approx 380 g/m²	Approx 420 g/m²	Approx 420 g/m²	Approx 650 g/m²
Tearing strength warp (DIN 53.363)	45 daN	45 daN	40 daN	45 daN
Tearing strength weft (DIN 53.363)	20 daN	20 daN	30 daN	25 daN
Breaking strength warp (EN ISO 1421)	230 daN/5 cm	310 daN/5 cm	300 daN/5 cm	330 daN/5 cm
Breaking strength weft (EN ISO 1421)	160 daN/5 cm	210 daN/5 cm	240 daN/5 cm	220 daN/5 cm

Soltis® 86



Soltis® 92

Soltis® B92 blackout

Polyester fabric Soltis® 86

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	
86-2044 (+)	9	59	32	30	0,21	
S86-2046 (+)	36	43	21	20	0,16	
S86-2046 B (+)	23	58	19	19	0,14	
S86-2048	36	42	22	22	0,17	
S86-2167	68	17	15	14	0,13	
S86-2171 (+)	42	39	19	17	0,15	
S86-2166	25	45	30	26	0,21	
S86-8204	32	41	27	19	0,19	
S86-50333	46	21	22	19	0,17	
S86-50336	66	15	19	15	0,16	
S86-2043 (+)	78	10	12	11	0,12	
S86-2158	60	25	15	14	0,13	
S86-50260	72	13	15	14	0,14	
S86-50261	44	35	21	14	0,16	
S86-50271	45	34	21	15	0,16	
S86-2012 (+)	55	27	18	17	0,15	
S86-2135 (+)	39	41	20	20	0,15	
S86-2148	73	13	14	14	0,13	
S86-2175	15	57	28	26	0,19	
S86-2045 (+)	57	29	14	17	0,12	
S86-2047 (+)	77	7	16	16	0,15	
S86-2053 (+)	73	13	14	14	0,13	
S86-2068 (+)	15	57	28	26	0,14	
S86-2161	67	17	16	14	0,14	
S86-8255	53	24	23	17	0,18	
S86-50264	72	11	17	16	0,15	
S86-50342	75	9	16	14	0,14	

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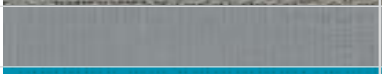
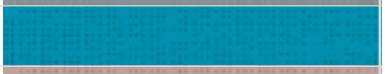
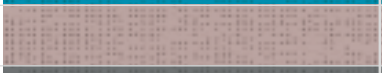
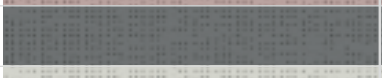
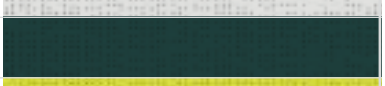
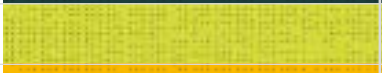
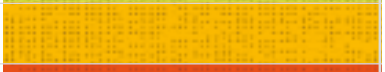
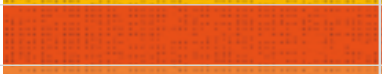
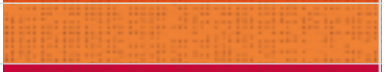
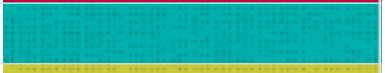
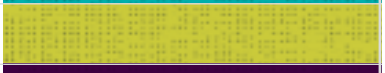
(+): Extra fabric width for 2670 for a limited selection of colors.

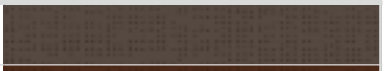
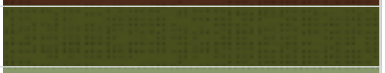
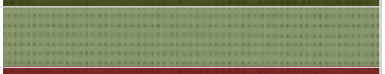
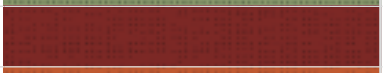
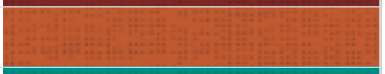
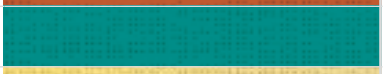
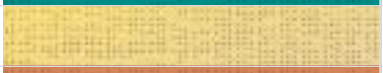
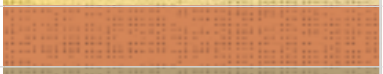
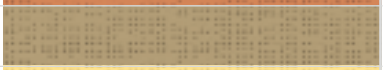
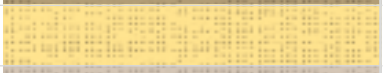
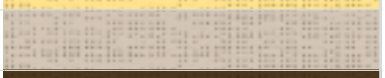
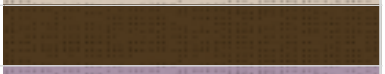
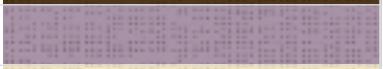
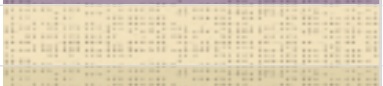
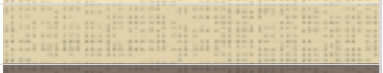
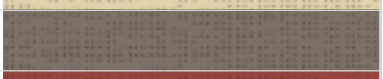
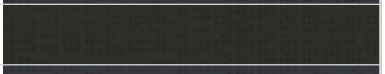
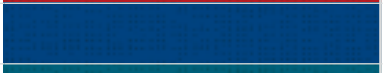
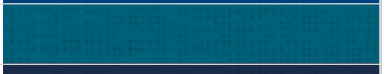
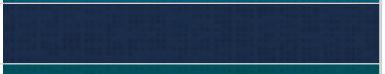
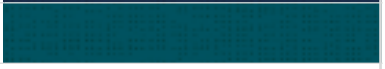
Polyester fabric Soltis® 92

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	
S92-2044 (+)	10	70	20	19	0,14	
S92-2046 A (+)	43	48	9	8	0,02	
S92-2046 B (+)	28	62	9	8	0,07	
S92-2048 (+)	46	46	8	8	0,08	
S92-2051 A	40	50	10	10	0,09	
S92-2051 B	21	70	9	9	0,07	
S92-2065	44	46	10	7	0,09	
S92-2074 A	58	38	4	3	0,06	
S92-2074 B	71	25	4	4	0,07	
S92-2160	56	36	8	4	0,08	
S92-2163	47	44	9	4	0,08	
S92-2167 (+)	78	19	3	3	0,06	
S92-2171 (+)	49	43	8	6	0,08	
S92-50272	32	56	12	9	0,1	
S92-2039	89	8	3	3	0,07	
S92-2157	34	51	15	10	0,12	
S92-2166	25	54	21	17	0,15	
S92-2172	38	43	19	8	0,15	
S92-8204	36	47	17	8	0,13	
S92-50268	47	37	16	5	0,13	
S92-50269	56	35	9	5	0,09	
S92-5033	52	37	11	7	0,1	
S92-50336	75	18	7	3	0,08	

All information subject to error and technical changes. Printed colours may deviate slightly, please refer to our fabric swatch for exact colours.
* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g)
(+): Extra fabric width for 2670 for a limited selection of colors.

Polyester fabric Soltis® 92

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	
S92-2043 (+)	86	12	2	2	0,06	
S92-2137	89	8	3	3	0,07	
S92-2149	79	16	5	4	0,07	
S92-2158	68	28	4	3	0,06	
S92-50260	81	14	5	4	0,07	
S92-50261	45	40	15	6	0,12	
S92-50271	54	38	8	2	0,08	
S92-50273	50	42	8	3	0,08	
S92-50274	57	35	8	4	0,08	
S92-2012	63	30	7	6	0,08	
S92-2013	25	57	17	16	0,14	
S92-2135 (+)	45	44	9	6	0,08	
S92-2148	83	14	3	3	0,06	
S92-2164	45	45	10	4	0,09	
S92-2175	17	64	19	16	0,13	
S92-50265 (+)	42	49	9	6	0,08	
S92-50266	77	19	4	4	0,07	
S92-50267	67	27	6	3	0,08	
S92-2045 (+)	62	35	3	3	0,05	
S92-2047 (+)	87	8	5	5	0,08	
S92-2053 (+)	91	6	3	3	0,07	
S92-2068	87	8	5	5	0,08	
S92-2152	48	37	15	5	0,12	
S92-8255	60	28	12	4	0,11	
S92-2161	76	19	5	3	0,07	
S92-50270	78	18	4	3	0,07	
S86-50342	84	10	6	4	0,08	
S92-50264	82	13	5	4	0,07	

All information subject to error and technical changes. Printed colours may deviate slightly, please refer to our fabric swatch for exact colours.
* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g)
(+): Extra fabric width for 2670 for a limited selection of colors.

Polyester fabric Soltis® 93

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	
S93-3003	38	48	14	11	0,11	
S93-3011	45	43	12	10	0,10	
S93-3043	81	13	6	6	0,08	
S93-3044	13	65	22	20	0,15	
S93-3045	61	32	7	7	0,08	
S93-3046 A	42	43	15	13	0,12	
S93-3046 B	25	60	15	13	0,11	
S93-3047	85	8	7	7	0,09	
S93-3048	44	47	9	8	0,08	
S93-3051 A	38	47	15	14	0,12	
S93-3051 B	20	65	15	14	0,11	
S93-3053	88	6	6	6	0,08	

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* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g)

Soltis® 93 & Topfix® Max

Soltis® B92 blackout polyester fabric

Blackout

In combination with a black-out fabric our Fixscreen® technology possesses the perfect solution for rooms which need to be obscured, from the inside or from the outside.

Ref.	As	Rs	Ts	Tv	G/tot. ext. * EN 13363-1	
B92-2135	53	47	0	0	0,03	
B92-2171	55	45	0	0	0,03	
B92-1043	88	12	0	0	0,05	
B92-1044	28	72	0	0	0,01	
B92-1045	65	35	0	0	0,03	
B92-1046	51	49	0	0	0,03	
B92-VERSO	71	29	0	0	0,04	

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* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Soltis® B92-fabric & Fixscreen® 100 EVO

RENSON®
Creating healthy spaces

Screen fabrics based on coated pre-stressed polyester fabric, or polyester fabric for short (Rensonscreen®)

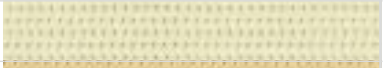
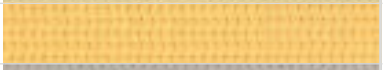
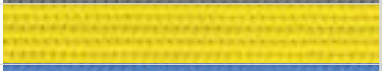
This sun blind fabric is made of high strength polyester yarn. After the weaving process the fabric is pulled in one direction with high tension and is fixed with liquid PVC. Thanks to this process the screen firmly retains its shape, showing hardly any distortion under pressure. In high tension applications, the screen meets the requirements excellently, with little sag, making it well-suited to shade large areas. The fabric is used in both horizontal and vertical applications where transparency is required.

Technical features of polyester fabric Rensonscreen®

	Rensonscreen®	Rensonscreen® Waterproof	Rensonscreen® Opaque
Description	Sun blind fabric for external sun blinds, ideal for façades, conservatories, sun lounges and glass roofs		
Composition	Polyester fabric (according the Rachel Trameur - method) with a PVC coating	Polyester fabric (according the Rachel Trameur - method) with a PVC coating + PVC transparant coating	Polyester fabric (according the Rachel Trameur - method) with a PVC coating + PVC black-out coating
Available width	1500 - 3000 mm	1370 mm	1450 mm
Fire resistance	M1	M1	M1
Thickness (ISO 2286-3)	Ca 0,40 mm	Ca 0,50 mm	Ca 0,45 mm
Weight (EN ISO 2286-2)	330 g/m²	455 g/m²	520 g/m²
Tearing strength warp (EN 1875-3)	43 daN (DIN 53.363)	58 daN (DIN 53.363)	50 daN (DIN 53.363)
Tearing strength weft (EN 1875-3)	22 daN (DIN 53.363)	30 daN (DIN 53.363)	40 daN (DIN 53.363)
Breaking strength warp (EN ISO 1421)	220 daN/5 cm (EN ISO 13934-1)	265 daN/5 cm (EN ISO 13934-1)	250 daN/5 cm (EN ISO 13934-1)
Breaking strength weft (EN ISO 1421)	150 daN/5 cm (EN ISO 13934-1)	172 daN/5 cm (EN ISO 13934-1)	160 daN/5 cm (EN ISO 13934-1)

Glass fibre fabric & Fixscreen® 150 EVO

Polyester fabric Rensonscreen®

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	OF=6%
M005	11	66	23	28	0,16	
M710	18	57	25	23	0,17	
M711	29	50	21	18	0,15	
M712	33	47	20	16	0,15	
M709	22	56	22	16	0,16	
M654	39	47	14	11	0,11	
M652	68	24	8	7	0,09	
X309	24	45	31	27	0,22	
X238	42	38	20	8	0,15	
X567	82	9	9	7	0,10	
X927	42	31	27	9	0,20	
X392	87	7	6	6	0,08	
X393	85	8	7	6	0,09	
X391	89	5	6	6	0,09	

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* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Polyester fabric Rensonscreen® Waterproof

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	OF=4%
SWC M005	14	62	24	21	0,16	
SWC M710	20	57	23	22	0,17	
SWC M711	34	49	17	14	0,14	
SWC M712	39	47	14	11	0,13	
SWC M709	24	54	22	15	0,16	
SWC M654	42	44	14	12	0,13	
SWC M652	68	25	7	6	0,10	
SWC X392	93	4	3	6	0,11	
SWC X393	91	7	2	5	0,11	
SWC X391	90	7	3	6	0,12	

All information subject to error and technical changes. Printed colours may deviate slightly, please refer to our fabric swatch for exact colours.
* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Rensonscreen® Waterproof & Lagune®

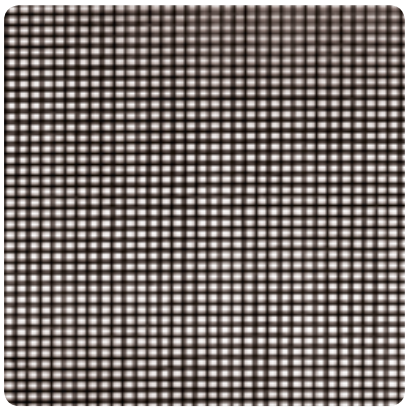
Polyester fabric Rensonscreen® Opaque

Ref.	AS	RS	TS	TV	G/tot. ext. * EN 13363-1	OF=0%
SWO M005	30	70	0	0	0,02	
SWO M710	34	66	0	0	0,02	
SWO M711	44	56	0	0	0,02	
SWO M712	48	52	0	0	0,03	
SWO M709	38	62	0	0	0,02	
SWO M654	50	50	0	0	0,03	
SWO M652	75	25	0	0	0,04	

All information subject to error and technical changes. Printed colours may deviate slightly, please refer to our fabric swatch for exact colours.
* Glazing C: double-glazing (4/16/4) with low-emission coating in position 3, argon-filled gap.

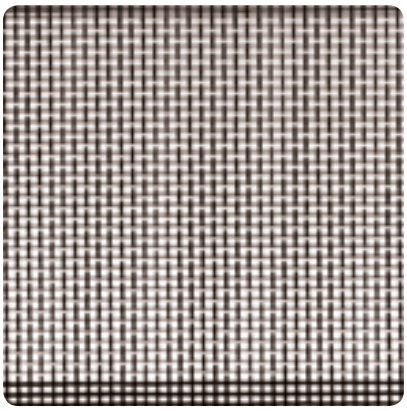
AS: sun absorption in % • RS: sun reflection in % • TS: sun transmittance in % • TV: visible light transmission in % • G/tot: shading coefficient (SC or g) • OF: % openness

Insect fabric



ISR Charcoal

ISR Grey



ISR Zebra

For products with Fixscreen® technology is it possible (and useful) to use insect fabric. In this way the screen (in closed position) will be insect-proof.

Technical features of insect fabric

	Insect screen
Composition	Glass fibre fabric (glass fibre 36 % - PVC 64%)
Weight	120 g/m²
Mesh	18x16
Thickness	0,28 mm ± 0,05 mm
Maintenance	water with mild soap
Make-up	HF-welded (always with grey splicing tape)
Hardness	Hard
Available width	2400 mm

Polyester fabric

Glass fibre fabric & Fixscreen® 150 EVO

Fabrics in Renson® sun protection & terrace coverings

Type of fabric	Acryl fabric		Glass fibre	Polyester fabric			Blackout fabric			Renson® Exclusive			Insect fabric
Type of brand	Dickson®	Dickson® Orchestra Max	Sergé®	Soltis® 86	Soltis® 92	Soltis® 93	Dual 13137	Satiné 21154	Soltis® B92	Rensonscreen®	Rensonscreen® Waterproof	Rensonscreen® Opaque	Insect screen
Vertical sunscreens													
Fixscreen® 85	–	–	✔	✔	✔	✔	✔*	✔*	✔*	✔	–	–	✔
Fixscreen® 100 EVO / EVO *Slim*	–	–	✔	✔	✔	✔	✔*	✔*	✔	✔**	–	–	✔
Fixscreen® 150 EVO Slim F (free)	–	–	✔	–	–	–	–	–	–	–	–	–	–
Fixscreen® 150 EVO	–	–	✔	✔	✔	✔	✔*	✔*	✔	–	–	–	–
Fixscreen® 150 EVO F (free)	–	–	✔	–	–	–	–	–	–	–	–	–	–
Fixscreen® Mono AK EVO	–	–	✔	✔	✔	✔	–	–	✔	✔**	–	–	✔
Miniscreen® 63	–	–	✔	✔	✔	✔	✔	✔	✔	✔	–	–	–
Miniscreen® 83/100	–	–	✔	✔	✔	✔	✔	✔	✔	✔**	–	–	–
Screenvent®	–	–	✔	✔	✔	✔	✔	✔	✔	✔**	–	–	–
Fixvent® Mono AK EVO	–	–	✔	✔	✔	✔	–	–	✔	✔**	–	–	✔
Horizontal sunscreens													
Topfix®	–	–	–	✔	✔	✔	–	–	✔	✔**	–	–	–
Topfix® Max	–	–	–	✔	✔	✔	–	–	✔	✔	–	✔	–
Topfix® Max F (free)	–	–	–	✔	✔	✔	–	–	–	✔	✔	–	–
Vegascreen®	✔	✔	–	✔	✔	✔	–	–	✔	✔	–	✔	–
Verandascreen®	✔	✔	–	✔	✔	✔	–	–	✔	✔	–	✔	–
Prestige®	✔	✔	–	–	–	–	–	–	–	–	–	–	–
Skyline®	✔	✔	–	–	–	–	–	–	–	–	–	–	–
Swingline®	✔	✔	–	–	–	–	–	–	–	–	–	–	–
Terrace coverings													
Lagune® Rooffix	–	–	–	–	–	–	–	–	–	–	✔	–	–
Lagune® Triangle	–	–	✔	–	–	–	–	–	–	✔	–	–	–
Lagune® with integrated Fixscreen®	–	–	✔	–	–	–	–	–	–	✔**	–	–	–
Camargue® with integrated Fixscreen®	–	–	✔	–	–	–	–	–	–	–	–	–	–
Loggiascreen®	–	–	✔	✔	✔	✔	–	–	–	✔	–	–	–
Loggiascreen® 4FIX	–	–	–	✔	✔	✔	–	–	–	✔	–	–	–

Remarks: Applicable screens, see price list.

(*) Exclusively for interior use.
(**) Max width 2500 mm & max surface 7m²

Product characteristics of sun blind fabrics

Watertightness

Woven polyacrylic fabrics and screen fabrics can never be completely watertight.
As with all tissues, there are small holes between the threads.
Polyacrylic fabrics are made resistant to water, dirt and oil by means of a treatment which is specially developed for external applications so that, under normal circumstances, water cannot ingress into the new fabric.
The surface tension makes drops of water slide off the fabric like a bead.

Vertically suspended fabric, without spring tension

Where no tension system can be used, these fabrics are kept taut by the weight of the bottom rail. In suspended position these fabrics may therefore be susceptible to slight crinkling.

The influence of wind

Wind affects fabric. Manufacturers cannot guarantee fabric tension systems to completely absorb the blowing or suction effect caused by the wind. In fact it is beneficial for the sun blind fabric to slightly give way under wind load in order to prevent tears in the fabric.
The best, most commonly used way to stow away the fabric compactly is by winding it on a round shaft. As previously mentioned, sun blinds are often very large while storage of the assembly in the smallest possible container is a commonly pursued objective. The selected winding shaft diameter is very important because this determines whether the shaft will bend or not. A minimum level of bending cannot be avoided.
Stripes may also appear at the point where the fabric is secured onto the winding shaft.

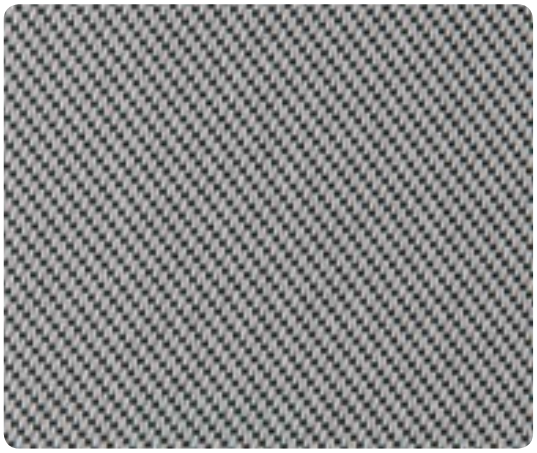
Rot and mould free

All currently used sun blind fabrics are made of mineral plastic fibres. These tissues do not contain any biologically degradable elements, which makes them inert against rotting. Nevertheless hydrocultures may develop at spots which are exposed to humidity and these may create the basis for moss forming. Moss and mould can thus grow on the particles and impurities which are drawn into the fabric. This can even occur on polyacrylate fabrics which are in principle more resistant because of their special protective treatment. If the fabric is rolled up in humid condition, the humidity between and within the tissue is unable to dry up. In this situation the tissue might become enclosed and spots of mould might occur in the form of black dots. This is an irreversible effect: these spots cannot be removed. However, this has no effect whatsoever on the quality and function of the fabric and will not cause the fabric to rot.
If the fabric becomes wet due to an unexpected shower, you can wind up the fabric and later unwind it again to allow it to dry once the weather is better. Avoid having the wet fabric rolled up for more than three days to prevent formation of mould and spots.

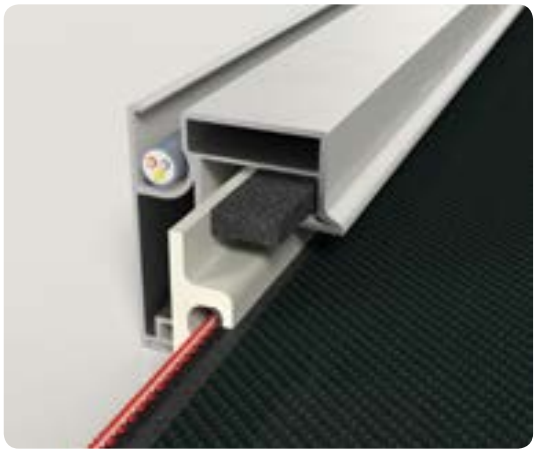
See also the user manual & warranty conditions

Fabric make-up

Example make-up 1



Example make-up 2



Detail Fixscreen® side channel

Printed screen fabric

Make-up

Fabrics are mechanically, thermally or ultrasonically cut. The fabrics are thermally or high-frequency welded.

Confection side

Make-up 1 = top side of fabric sample
= outer view of screen fabric
Make-up 2 = bottom side of fabric sample (in RENSON® fabric swatch)
= outer view of screen fabric

Weld

- The weld height is always calculated from the lowest point of the framework
- For typical glass fibre fabric: horizontal weld if height > 2700 mm
- For glass fibre darkening fabric:
  - Dual 13137: horizontal weld if height > 1400 mm
  - Satiné 21154: horizontal weld if height > 2100 mm
- For Soltis® 86: horizontal weld if height > 1770 mm
  For a selection of 10 colors: horizontal weld if height > 2670 mm. Unless similar screens with horizontal weld up to 1770 mm are processed in the same project, in wich case the horizontal weld for all screens is placed at 1770 mm for all screens.
- For Soltis® 92: horizontal weld if height > 1770 mm
- For Soltis® 93: horizontal weld if height > 2670 mm
- For Soltis® B92: horizontal weld if height > 1700 mm
- For Insect fabric: horizontal weld if height > 2400 mm
- For Rensonscreen®: horizontal weld if height > 3000 mm
- For Rensonscreen® Waterproof: horizontal weld if height > 1370 mm
- For Rensonscreen® Opaque: horizontal weld if height > 1450 mm

Finish

- The fabric is fixed above and below with an extruded strip in a fabric hem or with a fixed strip (braid)
- Side edges of glass fibre fabrics are fixed by means of a seal band (transparent reinforcement band) in order to prevent fraying
- Side edges of wind resistant screens (cf. Fixscreen®) are provided with a symmetrical zipper (red or yellow zipper)

Printing

- Possible according to own design e.g. with own logo or text

Meat Service
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Maintenance instructions

Glass fibre fabric & Miniscreen®

Soltis® B92-fabric & Fixscreen® 100 EVO

Regular maintenance

Keep the sun blind fabric free of dust and surface particles by vacuuming, blowing, gently beating or brushing.

For external sun blinds in acrylic fibre

For weather stains: sponge down with lots of water and rub with a damp cloth. Do not use soap solutions, cleaning agents, abrasives or a high pressure washer to clean your fabric. Contact your sun blinds specialist for more information about suitable cleaning products.

For vertical sun blinds in micro perforated fabric

Roll out the whole fabric. Remove dust and dirt from the fabric with a soft non-metallic brush by scrubbing both sides with clean water. It is recommended to start with the side which is most exposed to dirt. If you use a soap solution, only do so in accordance with the instructions for use of the relevant cleaning agent. Thoroughly rinse the fabric with clean water and allow it to dry outside in an unwound position if weather conditions allow. Note that cleaning methods such as abrasives, high pressure washers, chemical agents, organic and non-organic, are strictly prohibited.

If the fabric becomes wet due to an unexpected shower, you can wind up the fabric and later unwind it again to allow it to dry once the weather is better Avoid having the wet fabric rolled up for more than three days to prevent formation of mould and spots.

See also the user manual & warranty conditions

Glass fibre fabric & Fixscreen® 100EVO

References

Glass fibre fabric & Fixscreen® 100 EVO

Glass fibre fabric & Fixscreen® 100 EVO

Glass fibre fabric & Fixscreen® 150 EVO

Glass fibre fabric & Fixscreen® 100EVO / Fixscreen® 150 EVO

Creating healthy spaces

RENSON®: your partner in ventilation and sun protection

RENSON®, headquartered in Waregem (Belgium), is a trendsetter in Europe in natural ventilation and sun protection.

- ***Creating healthy spaces***
  From 1909, we've been developing energy efficient solutions assuring a healthy and comfortable indoor climate. Our remarkable headquarters - built according to the 'Healthy Building Concept' – is a beautiful example portraying our corporate mission.
- ***No speed limit on innovation***
  A multidisciplinary team of more than 50 R&D employees continually optimize our products and develop new and innovative concepts.
- ***Strong in communication***
  Contact with the customer is of the utmost importance. A group of 70 in-the-field employees worldwide and a powerful international distribution network are ready to advise you on site. EXIT5 at Waregem gives you the possibility to experience our products on your own and provides necessary training for installers.
- ***A reliable partner in business***
  We can guarantee our customers optimal quality and service thanks to our environmentally friendly and modern production sites (with automated powder coating line, anodisation line, uPVC injection molding machinery and mold making shop) covering an area of 75.000 m².

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